

INTERNATIONAL SEARCH REPORT

national Application No
T/GB2004/003595

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16F9/53

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F16F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 0090, no. 42 (M-359), 22 February 1985 (1985-02-22) & JP 59 183138 A (NIHON HATSUJIYOU KK), 18 October 1984 (1984-10-18) abstract	1-3, 6-24
X	US 6 427 813 B1 (CARLSON J DAVID) 6 August 2002 (2002-08-06) figure 1a	1, 4, 5
X	DE 101 43 980 A (BOSCH REXROTH AG) 27 March 2003 (2003-03-27) figure 1	1, 2, 9
X	WO 01/34997 A (QIU LING) 17 May 2001 (2001-05-17) figures 4, 5	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

1 December 2004

Date of mailing of the international search report

09/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Beaumont, A

INTERNATIONAL SEARCH REPORT

International Application No
T/GB2004/003595

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 59183138	A	18-10-1984	JP 1658991 C JP 3010816 B	21-04-1992 14-02-1991
US 6427813	B1	06-08-2002	WO 9906731 A1 AU 3890197 A JP 2001512220 T	11-02-1999 22-02-1999 21-08-2001
DE 10143980	A	27-03-2003	DE 10143980 A1 CA 2458730 A1 WO 03025418 A1 EP 1436523 A1	27-03-2003 27-03-2003 27-03-2003 14-07-2004
WO 0134997	A	17-05-2001	CN 1251465 A AU 1266501 A WO 0134997 A1	26-04-2000 06-06-2001 17-05-2001